

**LAKE OF THE WOODS BASIN****05131448 WOOD DUCK RIVER NEAR NETT LAKE, MN**

LOCATION.-- Lat 48°09'24", long 93°08'20", in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 35, T.66 N., R.22 W., Koochiching County, Hydrologic Unit 0903000, at bridge on Indian Service Road, 2.9 miles above mouth at Nett Lake, and 3.5 miles northwest of the town of Nett Lake.

PERIOD OF RECORD.-- October 1995 to current year.

GAGE.-- Water-stage recorder. Elevation of gage 1,275 ft above mean sea level (from topographic map).

REMARKS.-- Records good except those for estimated daily discharges, which are poor.

**DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997****DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
1	24	e63	e17	e8.3	e4.5	e3.4	e15	67	25
16	1.6	.81							
2	24	e56	e16	e8.1	e4.4	e3.4	e25	59	22
22	1.4	.75							
3	24	e51	e16	e7.9	e4.3	e3.4	e50	50	18
51	1.4	.73							
4	24	e48	e15	e7.7	e4.2	e3.4	e66	45	16
91	1.3	.73							
5	23	e48	e15	e7.5	e4.2	e3.4	e94	42	16
88	1.1	.77							
6	22	e48	e14	e7.3	e4.1	e3.4	e125	45	14
69	.99	.74							
7	22	e50	e14	e7.1	e4.0	e3.4	e200	54	13
52	.93	.79							
8	21	e51	e14	e7.0	e3.9	e3.4	e230	49	11
41	1.0	.87							
9	20	e49	e13	e6.8	e3.9	e3.4	e210	55	9.5
32	.91	.86							
10	21	e44	e13	e6.7	e3.8	e3.4	e180	57	8.5
27	.67	.82							
11	21	e40	e13	e6.6	e3.8	e3.4	e130	53	7.7
23	.63	.81							
12	20	e36	e12	e6.5	e3.7	e3.4	e115	52	7.1
22	.60	.81							
13	20	e34	e12	e6.4	e3.6	e3.4	e105	51	6.2
20	.54	.87							
14	21	e33	e12	e6.3	e3.6	e3.4	e100	46	5.6

20	.57	.87							
15	19	e33	e11	e6.2	e3.5	e3.4	e105	45	5.5
32	.56	.87							
16	19	e40	e11	e6.1	e3.5	e3.4	e105	44	5.2
28	.60	1.5							
17	22	e64	e11	e6.0	e3.4	e3.4	e100	41	4.9
18	.59	1.7							
18	32	e60	e11	e5.9	e3.4	e3.4	e100	36	5.5
13	.57	1.6							
19	39	e45	e11	e5.8	e3.4	e3.4	120	45	4.8
10	.63	1.7							
20	41	e33	e10	e5.7	e3.4	e3.4	145	52	6.0
7.8	.78	1.6							
21	39	e28	e10	e5.6	e3.4	e3.4	155	50	5.9
6.3	.75	1.6							
22	36	e25	e9.9	e5.5	e3.4	e3.4	149	48	5.6
5.0	.75	1.7							
23	34	e23	e9.7	e5.4	e3.4	e3.4	135	54	6.3
4.0	.80	1.7							
24	34	e22	e9.5	e5.3	e3.4	e3.5	124	65	12
3.6	.86	1.8							
25	33	e20	e9.4	e5.2	e3.4	e3.6	111	69	16
3.2	.88	1.7							
26	32	e20	e9.3	e5.0	e3.4	e3.8	100	62	16
3.5	.85	1.8							
27	32	e19	e9.2	e4.9	e3.4	e4.0	93	54	13
3.3	.79	2.0							
28	32	e18	e9.0	e4.8	e3.4	e4.5	87	46	17
2.7	.78	3.3							
29	34	e18	e8.8	e4.7	---	e5.5	80	39	19
2.4	.81	5.0							
30	61	e17	e8.6	e4.7	---	e7.0	74	33	18
2.3	.83	5.9							
31	e73	---	e8.5	e4.6	---	e10	---	29	---
2.1	.80	---							
TOTAL	919	1136	362.9	191.6	103.8	120.1	3428	1537	340.3
721.2	26.27	46.70							
MEAN	29.6	37.9	11.7	6.18	3.71	3.87	114	49.6	11.3
23.3	.85	1.56							
MAX	73	64	17	8.3	4.5	10	230	69	25
91	1.6	5.9							
MIN	19	17	8.5	4.6	3.4	3.4	15	29	4.8
2.1	.54	.73							
AC-FT	1820	2250	720	380	206	238	6800	3050	675
1430	52	93							
CFSM	.93	1.19	.37	.19	.12	.12	3.59	1.56	.36
.73	.03	.05							
IN.	1.08	1.33	.42	.22	.12	.14	4.01	1.80	.40
.84	.03	.05							

- e Estimated

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1997, BY WATER YEAR (WY)

JUL	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
	AUG	SEP							
MEAN	47.5	31.5	9.50	4.34	2.74	3.06	107	92.6	9.56
27.9	22.9	12.0							
MAX	65.4	37.9	11.7	6.18	3.71	3.87	114	136	11.3
32.5	45.0	22.5							
(WY)	1996	1997	1997	1997	1997	1997	1997	1996	1997
1996	1996	1996							
MIN	29.6	25.2	7.30	2.50	1.80	2.25	98.9	49.6	7.78
23.3	.85	1.56							
(WY)	1997	1996	1996	1996	1996	1996	1996	1997	1996
1997	1997	1997							

### SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1996 - 1997

ANNUAL TOTAL	13097.8		8932.87						
ANNUAL MEAN	35.8		24.5						30.9
HIGHEST ANNUAL MEAN									
37.4	1996								
LOWEST ANNUAL MEAN									
24.5	1997								
HIGHEST DAILY MEAN	281	May 1		230a	Apr 8	281	May		
1 1996									
LOWEST DAILY MEAN	1.8	Feb 1		.54	Aug 13	.54	Aug		
13 1997									
ANNUAL SEVEN-DAY MIN	1.8	Feb 1		.58	Aug 12	.58	Aug		
12 1997									
INSTANTANEOUS PEAK FLOW								322	May
1 1996									
INSTANTANEOUS PEAK STAGE				12.88b	Apr 7	12.88a	Apr		
7 1997									
INSTANTANEOUS LOW FLOW				.54	Aug 12	.54	Aug		
12 1997									
ANNUAL RUNOFF (AC-FT)	25980			17720		22420			
ANNUAL RUNOFF (CFSM)	1.13			.77		.97			
ANNUAL RUNOFF (INCHES)	15.32			10.45		13.22			
10 PERCENT EXCEEDS	82			62		76			
50 PERCENT EXCEEDS	19			9.4		13			
90 PERCENT EXCEEDS	1.8			.88		1.8			

- a Estimated.

b Highwater mark; backwater from ice.